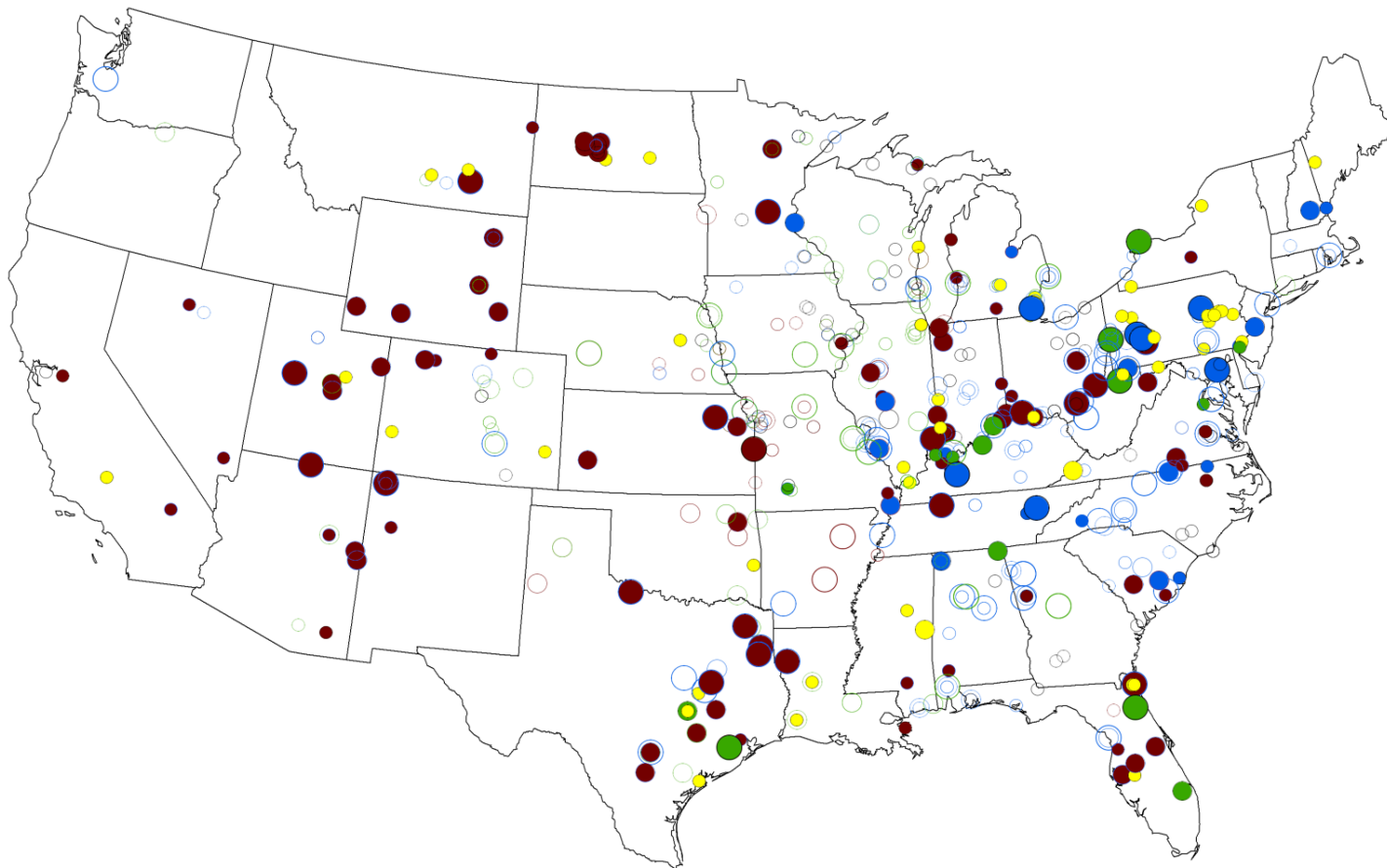


2000 Coal Controls for SO₂ and NO_x



Scrubber and SCR/SNCR Scrubber

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

FBC/IGCC

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB and Under 1.0 lb SO₂/mmBtu Under 1.0 lb SO₂/mmBtu

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

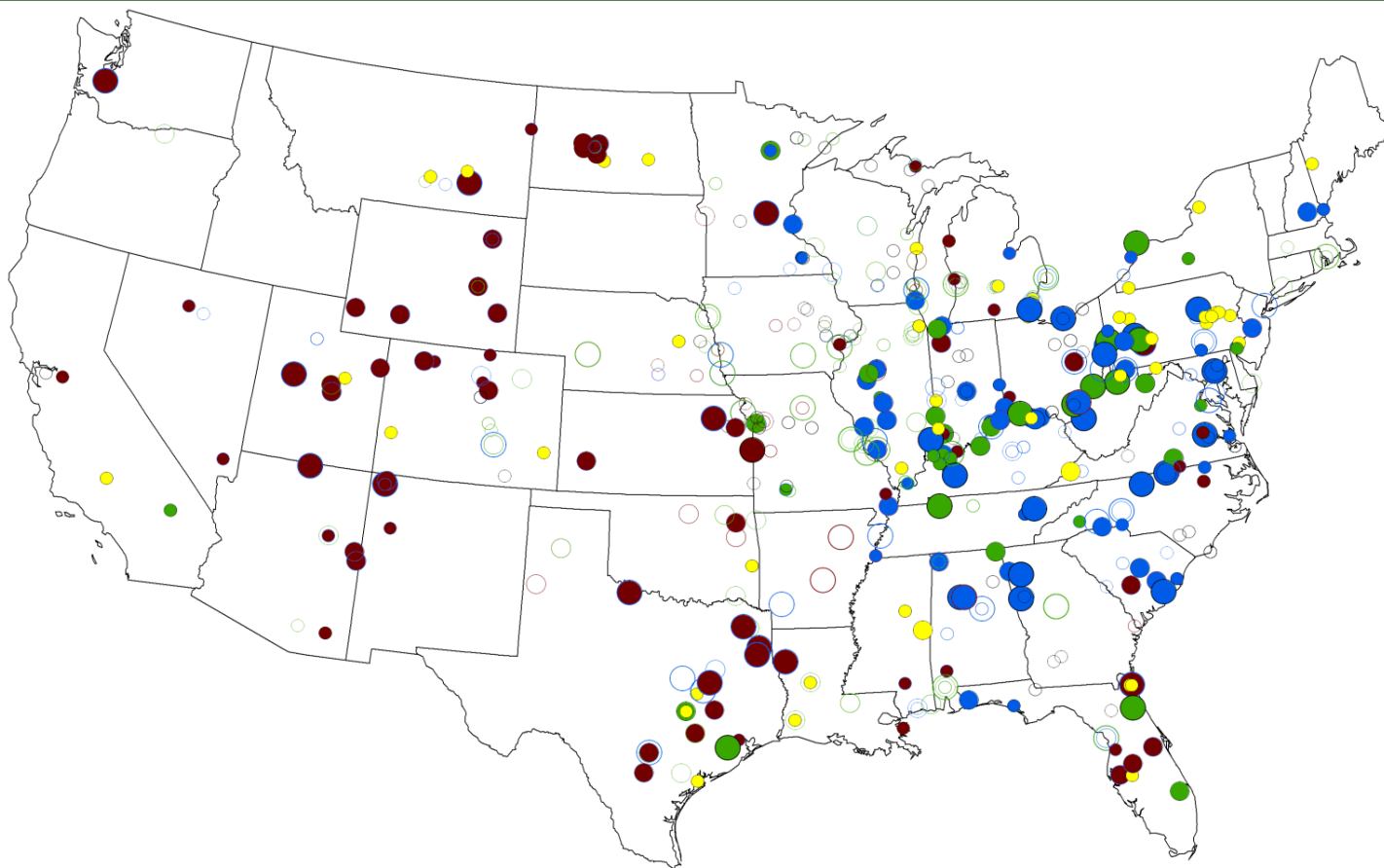
None

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

Virtually all coal-fired units have electrostatic precipitators, baghouses, or other advanced controls for high levels of particulate removal.

Source: National Electric Energy Data System (NEEDS 5.13v3) (EPA, 2013) and AMPD (EPA, 2014)

2005 Coal Controls for SO₂ and NO_x



Scrubber and SCR/SNCR Scrubber

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

FBC/IGCC

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB and Under 1.0 lb SO₂/mmBtu Under 1.0 lb SO₂/mmBtu

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

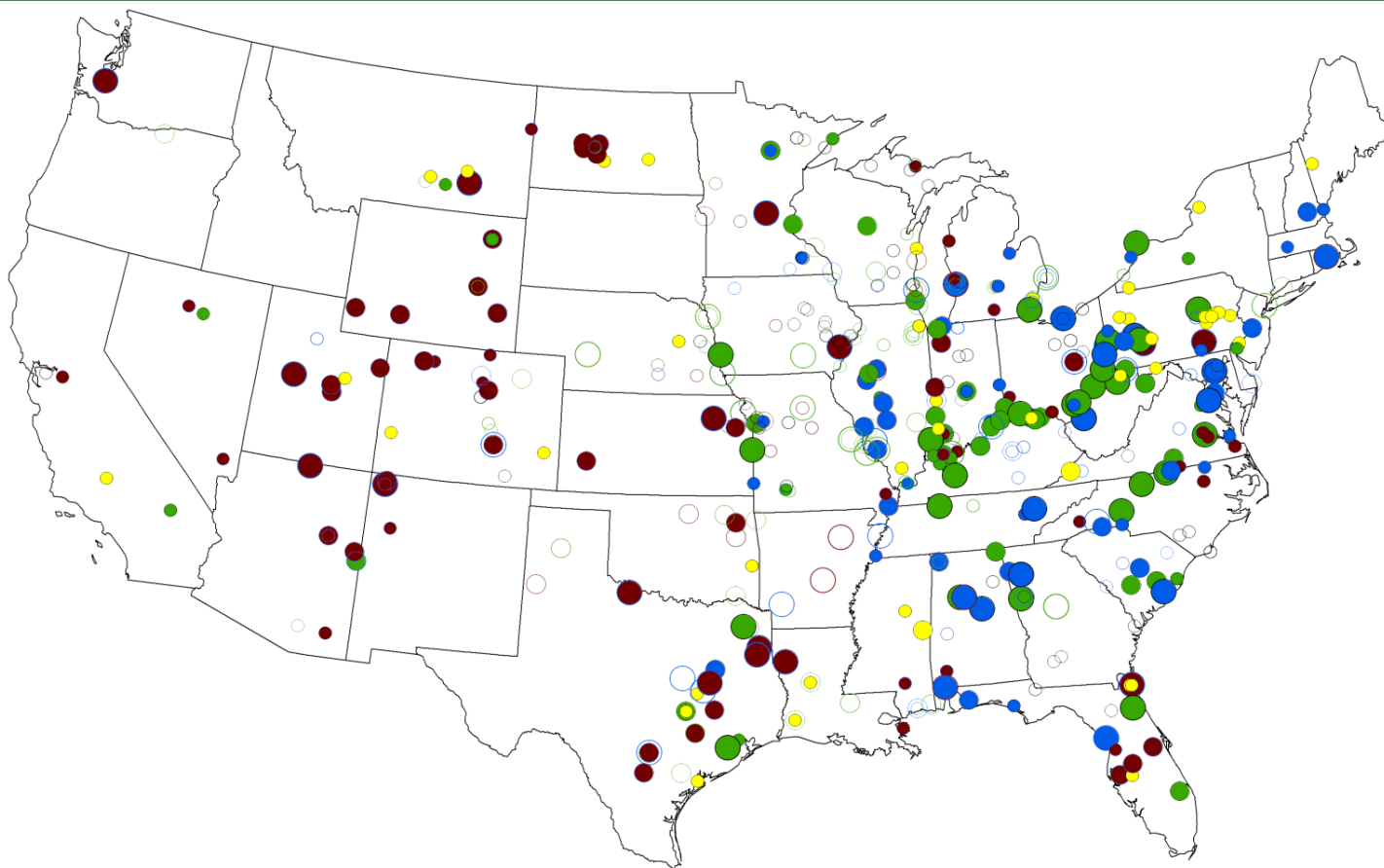
None

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

Virtually all coal-fired units have electrostatic precipitators, baghouses, or other advanced controls for high levels of particulate removal.

Source: National Electric Energy Data System (NEEDS 5.13v3) (EPA, 2013) and AMPD (EPA, 2014)

2008 Coal Controls for SO₂ and NO_x



Scrubber and SCR/SNCR Scrubber

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

FBC/IGCC

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB and Under 1.0 lb SO₂/mmBtu Under 1.0 lb SO₂/mmBtu

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

None

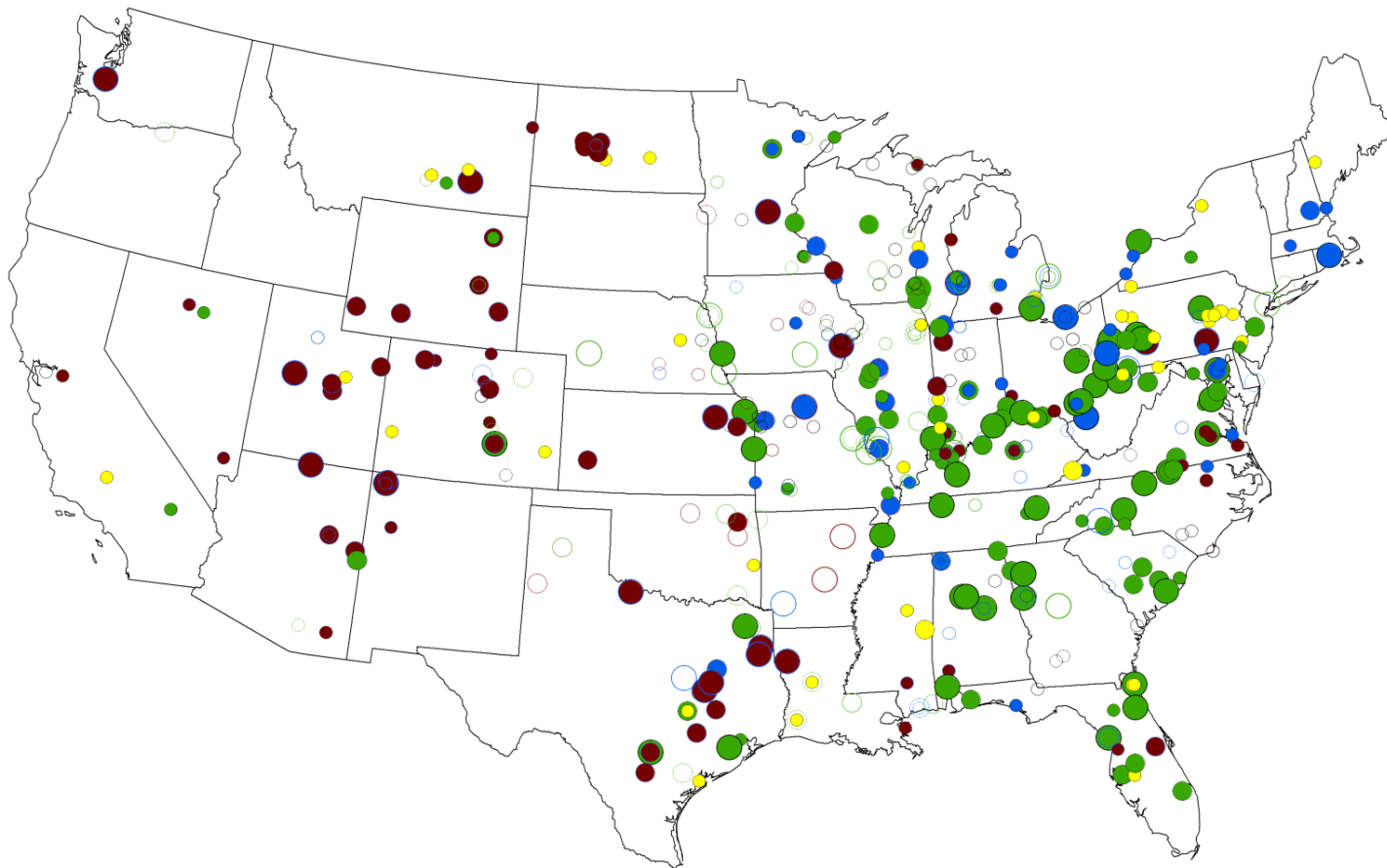
- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

Virtually all coal-fired units have electrostatic precipitators, baghouses, or other advanced controls for high levels of particulate removal.

Source: National Electric Energy Data System (NEEDS 5.13v3) (EPA, 2013) and AMPD (EPA, 2014)

2010 Coal Controls for SO₂ and NO_x



Scrubber and SCR/SNCR Scrubber

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB and Under 1.0 lb SO₂/mmBtu Under 1.0 lb SO₂/mmBtu

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

FBC/IGCC

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

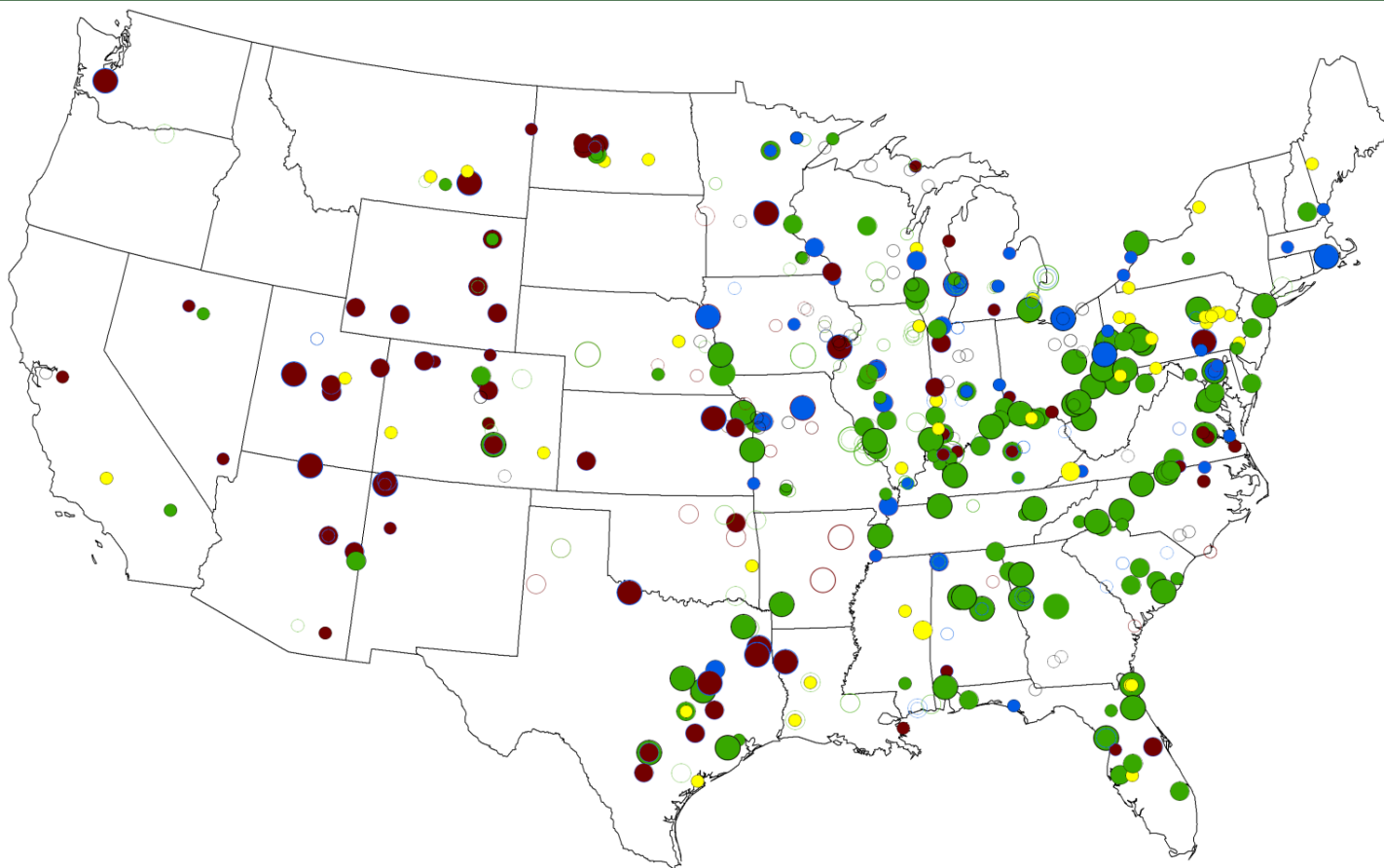
None

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

Virtually all coal-fired units have electrostatic precipitators, baghouses, or other advanced controls for high levels of particulate removal.

Source: National Electric Energy Data System (NEEDS 5.13v3) (EPA, 2013) and AMPD (EPA, 2014)

2012 Coal Controls for SO₂ and NO_x



Scrubber and SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

FBC/IGCC

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB and Under 1.0 lb SO₂/mmBtu

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

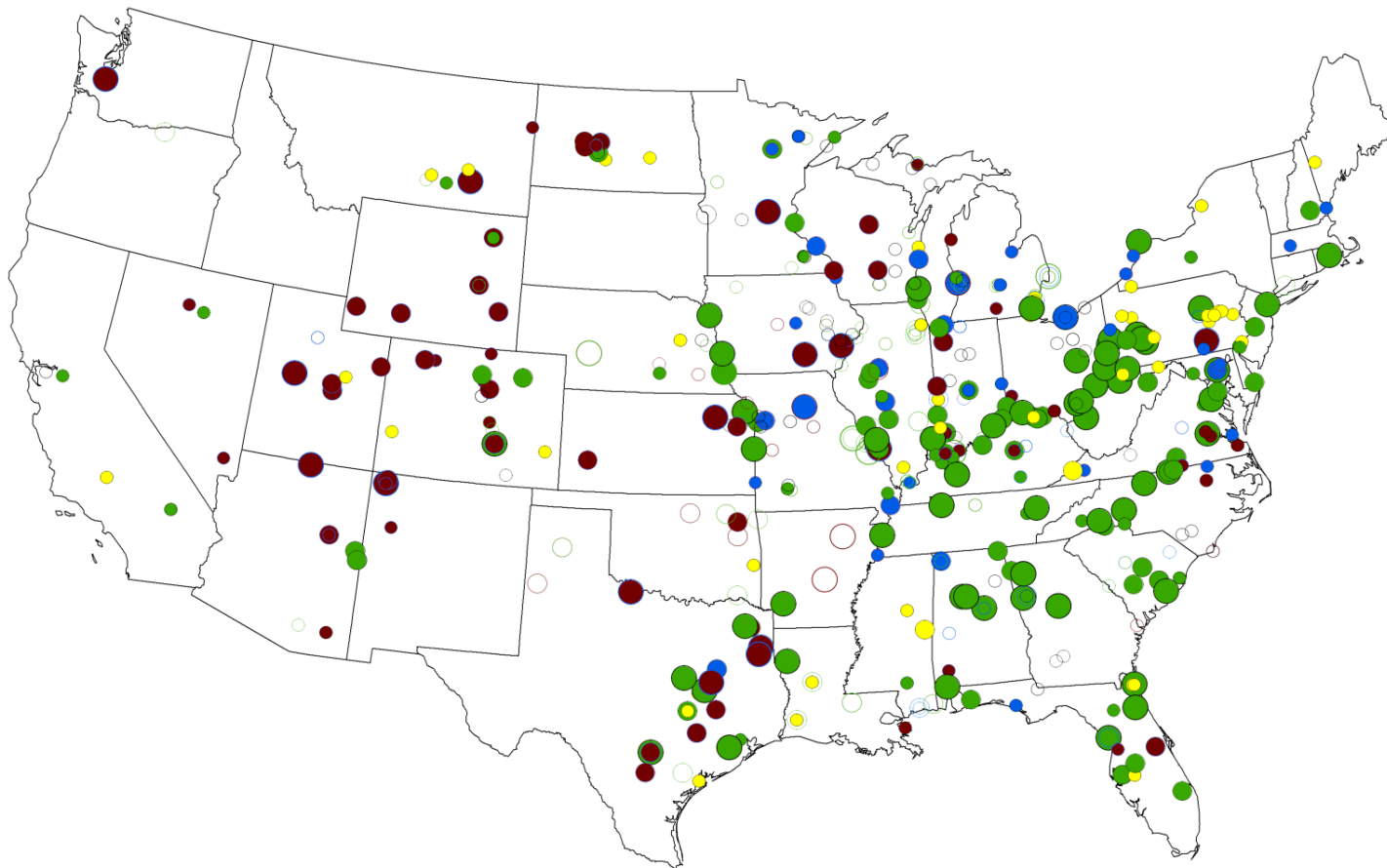
None

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

Virtually all coal-fired units have electrostatic precipitators, baghouses, or other advanced controls for high levels of particulate removal.

Source: National Electric Energy Data System (NEEDS 5.13v3) (EPA, 2013) and AMPD (EPA, 2014)

2014 Coal Controls for SO₂ and NO_x



Scrubber and SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

FBC/IGCC

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB and Under 1.0 lb SO₂/mmBtu

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

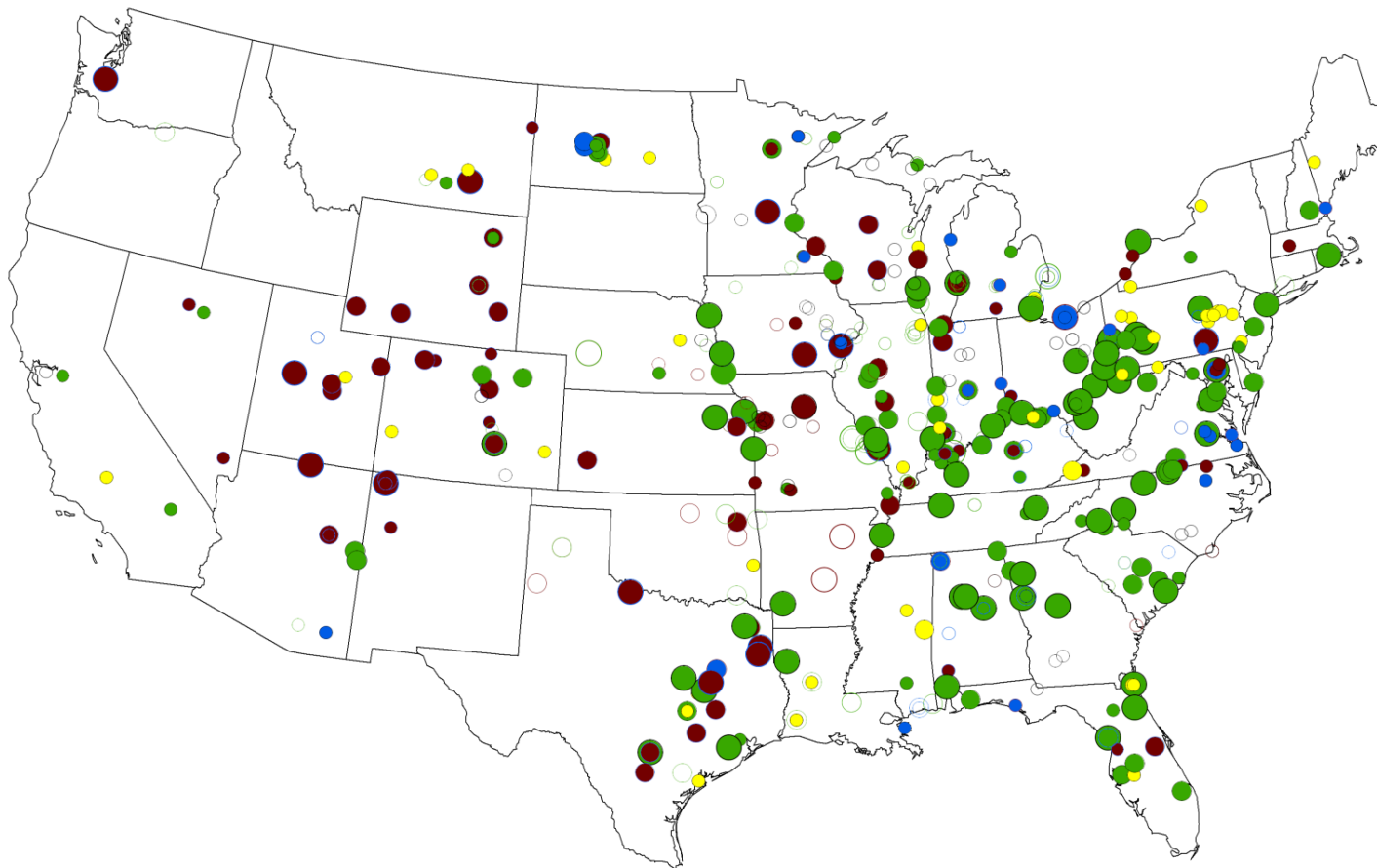
None

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

Virtually all coal-fired units have electrostatic precipitators, baghouses, or other advanced controls for high levels of particulate removal.

Source: National Electric Energy Data System (NEEDS 5.13v3) (EPA, 2013) and AMPD (EPA, 2014)

2015 Coal Controls for SO₂ and NO_x



Scrubber and SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

SCR/SNCR

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

FBC/IGCC

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB and Under 1.0 lb SO₂/mmBtu Under 1.0 lb SO₂/mmBtu

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

LNB

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

None

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

- Under 300 MW
- 300 MW to 600 MW
- Over 600 MW

Virtually all coal-fired units have electrostatic precipitators, baghouses, or other advanced controls for high levels of particulate removal.

Source: National Electric Energy Data System (NEEDS 5.13v3) (EPA, 2013) and AMPD (EPA, 2014)